TENT COOPERATION TRE

From the INTERNATIONAL SEARCHING AUTHORITY

SEMICONDUCTOR ENERGY LABORATORY CO., LTD.

398, Hase, Atsugi-shi, Kanagawa 2430036 Japan

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing (day/month/year)

FOR FURTHER ACTION

26.07.2005

Applicant's or agent's file reference 00000PCT7824

See paragraph 2 below

International application No. PCT/JP2005/007115 International filing date (day/month/year) 06.04.2005

Priority date (day/month/year) 09.04.2004

International Patent Classification (IPC) or both national classification and IPC

Int.CL7 H01L27/12, G06K19/07, 19/077, H01L21/822, 27/04, 29/786

Applicant

SEMICONDUCTOR ENERGY LABORATORY CO., LTD.

1.	This opinion	contains	indications	relating	to the	following	items:
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V Box No. I Basis of the opinion

Box No. II

Priority

Box No. III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Box No. IV

Lack of unity of invention

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;

citations and explanations supporting such statement

Box No. VI

Certain documents cited

Box No. VII Certain defects in the international application

Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Date of completion of this opinion

11.07.2005

Name and mailing address of the ISA/JP

Authorized officer

2934 4M

Japan Patent Office

WATAHIKI TAKASHI

3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

Telephone No. +81-3-3581-1101

Ext. 3460

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/007115

	Box	t No. I	Basis of the opinion
	1.	With re, which it	gard to the language, this opinion has been established on the basis of the international application in the language is twas filed, unless otherwise indicated under this item.
	•	T T	his opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (unde
		R	Rules 12.3 and 23.1(b)).
	2.	With reg	gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to th
		claimed	invention, this opinion has been established on the basis of:
		a. type o	of material
			a sequence listing
		4	table(s) related to the sequence listing
		b. forma	at of material
		Π.	in written format
			in computer readable form
		c. time o	of filing/furnishing
			contained in the international application as filed.
		F	filed together with the international application in computer readable form.
		T.	furnished subsequently to this Authority for the purposes of search.
	3.	file	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been ed or furnished, the required statements that the information in the subsequent or additional copies is identical to that the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4	4	Addition	al comments:
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			\cdot

WRITE I'EN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/007115

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
ļ	citations and explanations supporting such statement

1. Statement		. ,	
Novelty (N)	Claims Claims	3-6,9-13 1,2,7,8	YEŞ NO
Inventive step (IS)	Claims Claims	1-13	YES NO
Industrial applicability (IA)	Claims Claims	1-13	YES NO

2. Citations and explanations

D1:Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No.033140/1977 (Laid-open No. 126567/1978) (SANYO ELECTRIC CO., LTD.), 1978.10.07, WHOLE DOCMENT, FIG. 5 FAMILY:NONE

D2:US 2002/0195648 A1 (HIRATA) 2002.12.26, WHOLE DOCUMENT, FIGS.1-14 & JP 2003-7833 A

D3:WO 2000/044049 A1 (SEIKO EPSON CORPORATION) 2000.07.27, WHOLE DOCUMENT, FIGS.5, 19 & US 6671146 B1

D4:JP 2001-250097 A (HITACHI LTD.) 2001.09.14 WHOLE DOCUMENT, FIG. 2, & KR 2001088275 A

[Claim 1]

The subject matter of claim 1 does not appear to be novel with respect to D1 cited in the ISR. The subject matter of claim 1 is disclosed in D1.

[Claims 1, 2, 7, 8]

The subject matter of claims 1,2,7,8 does not appear to be novel with respect to D2 cited in the ISR. The subject matter of claims 1,2,7,8 is disclosed in D2.

[Claims 2-6, 8, 9]

The subject matter of claims 2-6,8,9 does not appear to involve an inventive step in view of the D1,D3.

The person skilled in the art could readily consider that the transistor having floating gate disclosed in D1 is applied to the invention disclosed in D3.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: . Box No. V

[Claims 7,10-13]

The subject matter of claim 7 does not appear to involve an inventive step in view of the D1.

The subject matter of claims 10-13 does not appear to involve an inventive step in view of the D1,D3,D4.

It is not special device in which the pulse generation circuit is connected to the transistor having floating gate by the connecting terminal so as to control the charge amount of the floating gate.

And RFID having the limiter circuit for over-voltage protection is well-known, as disclosed in D4.